

Abstract of the Disclosure

5 An improved process for manufacture of polymer coated composite
substrates is described. a coated composite substrate is prepared in the press by
applying a layer of a primer coating composition to the surface of a compressible mat
comprising fibers and/or particles and a resin binder. The primer coating composition
is formulated preferably as a fast setting polymer latex capable of forming a
10 chemically crosslinked polymer matrix when applied to the surface of a compressible
mat. a thermosetting top coat composition can be applied directly over the wet primer
coating composition before heat-processing the mat to improve surface quality and
release characteristics. Compressing and heating the coated mat produces a primed
composite substrate directly out of the press.